

Abstract of the Disclosure

An emergency rescue and recovery device includes a portable bundle with an inflatable bladder in a storage position. In one example, the inflatable bladder has a substantially toroid geometry when inflated. The portable bundle further includes a gas canister in communication with the inflatable bladder, and an opening mechanism coupled to the gas canister. A tether is coupled to the inflatable bladder. A manual trigger is coupled to the opening mechanism, and is operable to initiate inflation of the bladder. Optionally, the portable bundle includes a pouch and at least the inflatable bladder, the gas canister, and the opening mechanism are disposed within the pouch. A method for using an emergency rescue and recovery device includes coupling the portable bundle to a vehicle or person. A manual trigger is operated to inflate the bladder. The method includes inflating the bladder into a substantially toroid geometry splitting the enclosure.